C APPENDIX

Radiation Unit Conversion Factors

PREFIXES

T: Tera	10^{12}	M: Mega	10^{6}	m: milli	10^{-3}	n: nano	10^{-9}
G: Giga	10^{9}	k: kilo	10^{3}	μ: micro	10^{-6}	P: pico	10^{-12}

ACTIVITY

SI Units				Former Units		
1 Bq	=	1 dps	=	27 pCi	=	2.7×10^{-11} Ci
1 kBq	=	1×10^{3} dps	=	27 nCi	=	2.7×10^{-8} Ci
1MBq	=	1×10^{6} dps	=	27 μCi	=	2.7×10^{-5} Ci
1 GBq	=	1×10^{9} dps	=	27 mCi	=	2.7×10^{-2} Ci
1 TBq	=	1×10^{12} dps	=	27 Ci	=	2.7×10 Ci
37 mBq	=	0.037 dps	=	1 pCi	=	1×10^{-12} Ci
37 Bq	=	37 dps	=	1 nCi	=	1×10^{-9} Ci
37 kBq	=	3.7×10^{4} dps	=	1 μCi	=	1×10^{-6} Ci
37 MBq	=	3.7×10^{7} dps	=	1 mCi	=	1×10^{-3} Ci
37 GBq	=	3.7×10^{10} dps	=	1 Ci	=	1 Ci

ABSORBED DOSE

SI Units to Former Units			Former Units to SI Units		
1 Gy = 100 rad	1 mGy = 0.1 rad	1 μGy = 0.1 mrad	1 rad = 10 mGy	1 mrad = 10 μGy	1 μrad = 0.01 μGy

DOSE EQUIVALENT "BIOLOGICAL DOSE"

SI Units to Former Units			Former Units to SI Units		
1 Sv = 100 rem	1 mSv = 0.1 rem	1 μSv = 0.1 mrem	1 rem = 10 mSv	1 mrem = 10 μSv	1 μrem = 0.01 μSv

RADON

Radiation Exposure Domain	Radon Gas (Bq/m^3)		Radon Progeny (WLM)		Radon Progeny (mJ h/m^3)		Annual Radiation Dose (mSv/a)
Occupational (2000 hours per year)	150	=	0.2	=	0.67	=	1